# QC ABSTRACT

Nameof Work:Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

| SI. No. | Item | Quantity As Per BOQ | Required No's of testes as per frequency | Actual No's of testes as per frequency | Testes Results |
|---|---|---|---|---|---|
| 1 | 1:3:6 | 1.65 Cum | 1 | 1 | Pass |
| 2 | M15 | 71.80 Cum | 5 | 5 | Pass |
| 3 | CC Blocks-6' | 644.00 Sqm | 1 | 1 | Pass |
| 4 | Precast Slab 100mm | 558.00 Sqm | 1 | 1 | Pass |
| 5 | Precast Slab 250mm | 9.00 Sqm | 1 | 1 | Pass |

| | | |
|---|---|---|
| **Cubes** | **0-5 Cum** | **1Set** |
| | 6-15 Cum | 2Set |
| | 16-30 Cum | 3Set |
| | 31-50 Cum | 4Set |
| | Add 1set for extra 50Cum | |

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

# CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

**An ISO 9001-2015 Certified Company**

**NABL Accredited As Per ISO/IEC 17025:2017 Laboratory**


Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date: 07.06.2023

TEST REPORT

| | | |
|---|---|---|
| **CLIENT** | : | **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.** |
| **AGENCY** | : | **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.** |
| **NAME OF THE WORK** | : | Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore. |
| **SAMPLE ID** | : | Cement (Zuari OPC 53 Grade) |
| **DATE OF MANUFACTURE** | | May - 2023 |
| **DATE OF TESTING** | | 05.06.2023 to 07.06.2023 |
| **SAMPLES SUPPLIED BY** | : | AGENCY |

The results of the tests conducted on the cement sample are as follows:

| Sl.No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 269-2015 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part -5) | 135 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part -5) | 337 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part 3) by the Le-Chatelier method | 1 mm | Not more than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part -4) | 30.00 % | - |

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Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date :07.06.2023

## TEST REPORT ON FINE AGGREGATES (SAND)

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

**Name of Work** : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

Date of Testing :07.06.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 68 | 6.80 | 6.80 | 93.2 | 90-100 |
| 2.36 | 159 | 15.90 | 22.70 | 77.3 | 75-100 |
| 1.18 | 185 | 18.50 | 41.20 | 58.8 | 55-90 |
| 600 Micron | 179 | 17.90 | 59.10 | 40.9 | 35-59 |
| 300 Micron | 249 | 24.90 | 84.00 | 16.0 | 8-30 |
| 150 Micron | 129 | 12.90 | 96.90 | 3.1 | 0-10 |

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Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date : 07.06.2023

## TEST REPORT ON FINE AGGREGATES (SAND)
## IS 2116-1980

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

**Name of Work** : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

**Date of Testing** : 07.06.2023

**Material** : Sand - Masonry Total wt. of aggregates in gms = **1000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits as per IS 2116-1980 |
|---|---|---|---|---|---|
| 4.75 | 0 | 0.00 | 0.00 | 100.0 | 100 |
| 2.36 | 19 | 1.90 | 1.90 | 98.1 | 90-100 |
| 1.18 | 77 | 7.70 | 9.60 | 90.4 | 70-100 |
| 600 Micron | 129 | 12.90 | 22.50 | 77.5 | 40-100 |
| ~~300 Micron~~ | ~~345~~ | ~~34.50~~ | ~~47.00~~ | ~~53.0~~ | ~~5-70~~ |
| 150 Micron | 478 | 47.80 | 94.80 | 5.2 | 0-15 |

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Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date :07.06.2023

## TEST REPORT ON COARSE AGGREGATES

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

**Name of Work** : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

Date of Testing :07.06.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---|---|---|---|---|---|
| 40 | 0 | 0 | 0 | 100 | 100 |
| 20 | 188 | 3.8 | 3.8 | 96.2 | 95-100 |
| 10 | 2572 | 51.4 | 55.2 | 44.8 | 25-55 |
| 4.75 | 1972 | 39.4 | 94.6 | 5.4 | 0-10 |

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Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date :07.06.2023

## TEST REPORT ON COARSE AGGREGATES

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

**Name of Work** : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

Date of Testing :07.06.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---|---|---|---|---|---|
| 80 | 0 | 0 | 0 | 100 | 100 |
| 40 | 184 | 1.23 | 1.23 | 98.77 | 95-100 |
| 20 | 8205 | 54.70 | 55.93 | 44.07 | 30-70 |
| 10 | 3207 | 21.38 | 77.31 | 22.69 | 10-35 |
| 4.75 | 2811 | 18.74 | 96.05 | 3.95 | 0-5 |

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Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date : 09.06.2023

## TEST REPORT ON SOLID CONCRETE BLOCKS

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

**Name of the Work** : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

**Date of Testing** : 09.06.2023

**Size of Blocks** : 400mm x 150mm x 200mm

**Cross Sectional Area** : 60000 $mm^2$

**Technical Reference** : IS: 2185 (Part 1) - 2005

**No. of Blocks Tested** : 04

| Sl.No. | Block ID | Wt. in Kg | Failure load (KN) | Compressive strength ($N/mm^2$) | Block Density in $Kg/M^3$ | Requirement as per IS 2185 (Part 1) - 2005 |
|---|---|---|---|---|---|---|
| 1 | Block 1 | 25.9 | 258.9 | 4.32 | 2158.33 | Minimum required Compressive Strength of Individual Units 4.00$N/mm^2$ |
| 2 | Block 2 | 26.1 | 260.1 | 4.34 | 2175.00 | |
| 3 | Block 3 | 26.4 | 262.7 | 4.38 | 2200.00 | |
| 4 | Block 4 | 26.8 | 265.3 | 4.42 | 2233.33 | |

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Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date: 23.06.2023

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

**Name of the work** : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{15}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 16.06.2023 | 23.06.2023 | 8.152 | 264.7 | 11.76 |
| 2 | 16.06.2023 | 23.06.2023 | 8.159 | 267.1 | 11.87 |
| 3 | 16.06.2023 | 23.06.2023 | 8.164 | 272.5 | 12.11 |

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Vidyaranyapura Sub Division
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**An ISO 9001-2015 Certified Company**

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Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date: 14.07.2023

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

**Name of the work** : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{15}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 16.06.2023 | 14.07.2023 | 8.158 | 370.9 | 16.48 |
| 2 | 16.06.2023 | 14.07.2023 | 8.163 | 372.7 | 16.56 |
| 3 | 16.06.2023 | 14.07.2023 | 8.172 | 373.9 | 16.62 |

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For CIVIL AIM CONSULTANTS & ENGINEERS

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**An ISO 9001-2015 Certified Company**

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Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date: 26.06.2023

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

**Name of the work** : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{15}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 19.06.2023 | 26.06.2023 | 8.149 | 268.5 | 11.93 |
| 2 | 19.06.2023 | 26.06.2023 | 8.157 | 271.9 | 12.08 |
| 3 | 19.06.2023 | 26.06.2023 | 8.164 | 274.3 | 12.19 |

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For CIVIL AIM CONSULTANTS & ENGINEERS

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**An ISO 9001-2015 Certified Company**

**NABL Accredited As Per ISO/IEC 17025:2017 Laboratory**


Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date: 17.07.2023

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

**Name of the work** : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{15}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 19.06.2023 | 17.07.2023 | 8.155 | 371.5 | 16.51 |
| 2 | 19.06.2023 | 17.07.2023 | 8.161 | 373.8 | 16.61 |
| 3 | 19.06.2023 | 17.07.2023 | 8.167 | 378.8 | 16.84 |

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Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date: 28.06.2023

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

**Name of the work** : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{15}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 21.06.2023 | 28.06.2023 | 8.145 | 270.7 | 12.03 |
| 2 | 21.06.2023 | 28.06.2023 | 8.153 | 273.4 | 12.15 |
| 3 | 21.06.2023 | 28.06.2023 | 8.148 | 277.7 | 12.34 |

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Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date: 19.07.2023

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

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**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{15}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 21.06.2023 | 19.07.2023 | 8.180 | 380.9 | 16.93 |
| 2 | 21.06.2023 | 19.07.2023 | 8.183 | 383.7 | 17.05 |
| 3 | 21.06.2023 | 19.07.2023 | 8.188 | 389.4 | 17.31 |

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Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date: 28.06.2023

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

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**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{15}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 21.06.2023 | 28.06.2023 | 8.144 | 275.1 | 12.23 |
| 2 | 21.06.2023 | 28.06.2023 | 8.150 | 277.4 | 12.33 |
| 3 | 21.06.2023 | 28.06.2023 | 8.161 | 279.8 | 12.44 |

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Authorised Signatory

# CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

**An ISO 9001-2015 Certified Company**

**NABL Accredited As Per ISO/IEC 17025:2017 Laboratory**


Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date: 19.07.2023

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

**Name of the work** : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{15}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 21.06.2023 | 19.07.2023 | 8.175 | 378.3 | 16.81 |
| 2 | 21.06.2023 | 19.07.2023 | 8.180 | 379.8 | 16.88 |
| 3 | 21.06.2023 | 19.07.2023 | 8.173 | 377.2 | 16.76 |

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**An ISO 9001-2015 Certified Company**

**NABL Accredited As Per ISO/IEC 17025:2017 Laboratory**


Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date: 05.07.2023

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

**Name of the work** : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{15}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 28.06.2023 | 05.07.2023 | 8.149 | 271.5 | 12.07 |
| 2 | 28.06.2023 | 05.07.2023 | 8.154 | 268.1 | 11.92 |
| 3 | 28.06.2023 | 05.07.2023 | 8.162 | 270.9 | 12.04 |

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(Building Geo-Tech & Highway Materials Testing Laboratory)

**An ISO 9001-2015 Certified Company**

**NABL Accredited As Per ISO/IEC 17025:2017 Laboratory**


Job No.: CACE/BBMP/ASR/W.No.11/2023-24 Date: 26.07.2023

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Agency** : **Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

**Name of the work** : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{15}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 28.06.2023 | 26.07.2023 | 8.179 | 380.2 | 16.90 |
| 2 | 28.06.2023 | 26.07.2023 | 8.182 | 384.7 | 17.10 |
| 3 | 28.06.2023 | 26.07.2023 | 8.189 | 389.5 | 17.31 |

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Job No.: CACE/BBMP/ASR/W.No.11/2023-24

Date: 26.06.2023

## PRECAST SLAB 100 mm Thick(CORE) TEST REPORT

| | | |
|---|---|---|
| **Client** | : | **: Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.** |
| **Contractor** | : | **: Sri. Abbu Sambasiva reddy , Contractor, Bangalore.** |
| **Name of Work** | : | : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore. |
| **No.of Sample Tested** | : | 03 |
| **Date of Testing** | : | 26.06.2023 |
| **Techinical Reference** | : | IS:516-1959 (Reaffirmed 1999), SP-24:1983. |
| **Grade of Concrete** | : | $M_{20}$ |

| Sl. No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / $m^3$) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength ( $N/mm^2$) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength ($N/mm^2$) | Equivalent Cube Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50.00 | 78.00 | 0.369 | 2409.36 | 1.56 | 0.952 | 33.10 | 16.86 | 18.21 | 17.34 | 21.68 |
| 2 | 50.00 | 79.00 | 0.372 | 2398.20 | 1.58 | 0.955 | 33.50 | 17.06 | 18.43 | 17.59 | 21.99 |
| 3 | 50.00 | 80.00 | 0.377 | 2400.06 | 1.60 | 0.957 | 34.20 | 17.42 | 18.81 | 18.00 | 22.50 |

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**An ISO 9001-2015 Certified Company**

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Job No.: CACE/BBMP/ASR/W.No.11/2023-24

Date: 26.06.2023

## PRECAST SLAB 250mm Thick(CORE) TEST REPORT

**Client** : **: Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

**Contractor** : **: Sri. Abbu Sambasiva reddy , Contractor, Bangalore.**

**Name of Work** : : Improvements roads and drains and Providing Covering Slabs at Bharatnagar Varadarajnagar Vinayaknagar Singarapura Paradies Singapura and Surrounding areas in Ward No 11 Kuvempunagar in Vidyaranyapura Sub Division , BBMP, Bangalore.

**No.of Sample Tested** : 03

**Date of Testing** : 26.06.2023

**Techinical Reference** : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

**Grade of Concrete** : M20

| Sl. No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / $m^3$) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength ( $N/mm^2$) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength ($N/mm^2$) | Equivalent Cube Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 90.00 | 108.00 | 1.750 | 2547.06 | 1.20 | 0.914 | 113.20 | 17.79 | 19.22 | 17.56 | 21.95 |
| 2 | 90.00 | 109.00 | 1.755 | 2530.90 | 1.21 | 0.915 | 113.60 | 17.86 | 19.29 | 17.64 | 22.05 |
| 3 | 90.00 | 110.00 | 1.761 | 2516.47 | 1.22 | 0.916 | 113.70 | 17.87 | 19.30 | 17.68 | 22.10 |

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